

**What is claimed is:**

1. A retractable device of sun shading suspensory umbrella mainly comprising:

an upper and lower support umbrella rods, ribs and hand cranking device;

the diameter of said upper support umbrella rod is less than said lower support umbrella rod, said upper umbrella rod is located within the low portion of said retractable  
5 device, said hand cranking retractable device is equipped within lower portion of said lower support umbrella rod, said hand cranking retractable device is a worm with a handle, which connects with an active worm gear and a driven worm gear separately on both sides, said active worm gear and driven worm gear separately connects to entwined wire rope rotating wheel A and B through axletree, one end of said wire rope A is wired to rotating  
10 wheel A, the other end of said wire rope A is securely mounted to lower umbrella tray, one end of said wire rope B is wired to rotating wheel B, the other end of said wire rope B is securely mounted to upper support umbrella rods.

2. The retractable device of sun shading suspensory umbrella as claimed in claim 1, further comprising an assistant sliding device is located in the lower part of upper support umbrella rod, said sliding device is composed of plastic sheath and steel balls which are evenly distributed to outside of the plastic sheath, there are sheaves within the lower  
5 portion of upper umbrella rod .

3. The retractable device of sun shading suspensory umbrella as claimed in claim 1 further comprising an assistant sliding device is located within the upper portion of lower support umbrella rod, and the said sliding device is composed of plastic sheath and steel balls which are evenly distributed to outside of the plastic sheath, there is a wire rope feed  
5 back pulley located on external upper side of lower support umbrella rod outside, on the opposite side it has a set bolt.

4. The retractable device of sun shading suspensory umbrella as claimed in claim 1 further comprising the rotating speed of active worm gear is twice of the driven worm gear, the length of the wire rope entwined on the rotating wheel B is half of the whole travel length of the wire rope A.

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